

Title (en)

METHODS FOR REDUCING ERROR IN ENVIRONMENTAL NOISE COMPENSATION SYSTEMS

Title (de)

VERFAHREN ZUR FEHLERREDUZIERUNG IN SYSTEMEN ZUR KOMPENSATION VON UMGEBUNGSGERÄUSCHEN

Title (fr)

PROCÉDÉS POUR RÉDUIRE UNE ERREUR DANS DES SYSTÈMES DE COMPENSATION DE BRUIT ENVIRONNEMENTAL

Publication

**EP 4074065 A1 20221019 (EN)**

Application

**EP 20834055 A 20201208**

Priority

- US 201962945292 P 20191209
- US 201962945303 P 20191209
- US 201962945607 P 20191209
- US 202063198995 P 20201130
- US 202063198996 P 20201130
- US 202063198997 P 20201130
- US 202063198998 P 20201130
- US 202063198999 P 20201130
- US 2020063684 W 20201208

Abstract (en)

[origin: WO2021118946A1] Some noise compensation methods involve receiving microphone signals corresponding to ambient noise from a noise source location in or near an audio environment, determining or estimating a listener position in the audio environment and estimating at least one critical distance, which is a distance from the noise source location at which directly propagated sound pressure is equal to diffuse field sound pressure. Some examples involve estimating whether the listener position is within the at least one critical distance and implementing a noise compensation method for the ambient noise based, at least in part, on an estimate of whether the listener position is within the critical distance.

IPC 8 full level

**H04R 1/10** (2006.01); **G10L 21/0208** (2013.01); **G10L 21/0216** (2013.01); **H03G 3/32** (2006.01); **H03G 5/02** (2006.01); **H03G 5/16** (2006.01); **H03G 9/00** (2006.01); **H03G 9/02** (2006.01); **H04M 9/08** (2006.01); **H04R 3/00** (2006.01); **H04R 3/02** (2006.01); **H04R 3/04** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP KR US)

**G06F 3/162** (2013.01 - US); **G06F 3/165** (2013.01 - US); **G10L 15/22** (2013.01 - US); **G10L 21/0208** (2013.01 - EP KR); **G10L 21/0232** (2013.01 - US); **G10L 25/51** (2013.01 - US); **H03G 3/32** (2013.01 - EP KR US); **H03G 9/005** (2013.01 - EP KR); **H03G 9/025** (2013.01 - EP KR US); **H04M 9/082** (2013.01 - EP KR US); **H04R 1/08** (2013.01 - US); **H04R 1/1083** (2013.01 - EP KR); **H04R 1/403** (2013.01 - US); **H04R 1/406** (2013.01 - US); **H04R 3/005** (2013.01 - US); **H04R 3/007** (2013.01 - EP KR); **H04R 3/02** (2013.01 - EP KR US); **H04R 3/04** (2013.01 - EP KR US); **H04R 3/12** (2013.01 - US); **H04R 29/001** (2013.01 - US); **H04R 29/002** (2013.01 - US); **H04S 7/30** (2013.01 - EP); **H04S 7/301** (2013.01 - EP KR); **H04S 7/302** (2013.01 - EP KR); **H04S 7/305** (2013.01 - EP KR); **G10L 2015/223** (2013.01 - US); **G10L 2021/02082** (2013.01 - EP KR); **H04R 2227/001** (2013.01 - EP KR); **H04R 2420/07** (2013.01 - US); **H04R 2430/01** (2013.01 - EP KR US); **H04R 2430/03** (2013.01 - EP KR); **H04S 2400/13** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2021118946 A1 20210617**; CN 114747233 A 20220712; CN 114788304 A 20220722; CN 114830681 A 20220729; CN 114830687 A 20220729; CN 114830687 B 20240802; CN 114868403 A 20220805; EP 4074065 A1 20221019; EP 4074066 A1 20221019; EP 4074068 A1 20221019; EP 4074068 B1 20240807; EP 4074069 A1 20221019; EP 4074077 A2 20221019; JP 2022551015 A 20221206; JP 7307278 B2 20230711; KR 102505773 B1 20230306; KR 102633176 B1 20240206; KR 20220090555 A 20220629; KR 20220103196 A 20220721; KR 20220113438 A 20220812; US 11817114 B2 20231114; US 2022406326 A1 20221222; US 2023026347 A1 20230126; US 2023037824 A1 20230209; US 2023044546 A1 20230209; US 2023044872 A1 20230209; WO 2021118945 A1 20210617; WO 2021119177 A1 20210617; WO 2021119190 A1 20210617; WO 2021119214 A2 20210617; WO 2021119214 A3 20210923

DOCDB simple family (application)

**US 2020063686 W 20201208**; CN 202080084299 A 20201209; CN 202080085347 A 20201208; CN 202080085436 A 20201208; CN 202080085586 A 20201209; CN 202080085765 A 20201209; EP 20829268 A 20201209; EP 20834055 A 20201208; EP 20834056 A 20201208; EP 20834095 A 20201209; EP 20838728 A 20201209; JP 2022534760 A 20201209; KR 20227017769 A 20201208; KR 20227022698 A 20201209; KR 20227023486 A 20201209; US 201917779515 A 20191209; US 2020063684 W 20201208; US 2020064086 W 20201209; US 2020064103 W 20201209; US 2020064135 W 20201209; US 202017781622 A 20201208; US 202017781632 A 20201208; US 202017784061 A 20201209; US 202017784071 A 20201209